

AMENDMENTS TO THE CLAIMS

1-74. (Cancelled)

75. (New) A transgenic fish whose genome comprises a *cMYC* oncogene operably linked to a *RAG2* promoter, wherein the oncogene is expressed in lymphoid cells and induces T-cell acute lymphoblastic leukemia.

76. (New) The transgenic fish of claim 75, wherein the oncogene is fused to a reporter gene.

77. (New) The transgenic fish of claim 76, wherein the reporter gene is a fluorescent protein gene.

78. (New) The transgenic fish of claim 77, wherein the fluorescent protein gene is *GFP*.

79. (New) The transgenic fish of claim 75, wherein the oncogene is fused to *ER*.

80. (New) The transgenic fish of claim 79, wherein the *ER* is tamoxifen-sensitive *ER* (*ERTm*).

81. (New) The transgenic fish of claim 75, wherein the transgenic fish is a transgenic zebrafish.

82. (New) A method of screening test drugs or agents that suppress oncogene-induced leukemia, comprising:

contacting or otherwise exposing a transgenic fish to a test drug or agent, wherein the transgenic fish has a genome that comprises a mouse *cMYC* oncogene operably linked to a *RAG2* promoter, and wherein expression of the oncogene induces T-cell acute lymphoblastic leukemia;

comparing the leukemia in said transgenic fish after contact or exposure to said test drug or agent relative to the leukemia of said fish prior to contact or exposure with said test drug or agent;

wherein suppression of the leukemia in said transgenic fish after contact or exposure to said test drug or agent relative to the leukemia of said fish prior to contact or exposure with said test drug or agent is indicative of a test drug or agent that suppresses oncogene-induced leukemia.

83. (New) The method of claim 82, wherein the comparison step comprises measuring the rate of onset of tumor formation resulting from oncogene-induced leukemia.

84. (New) The method of claim 82, wherein the comparison step comprises measuring the amount or size of tumors resulting from oncogene-induced leukemia.

85. (New) The method of claim 82, wherein the test drug or agent is antisense DNA, antisense RNA, or small interfering RNA.

86. (New) The method of claim 82, wherein the transgenic fish is a transgenic fish embryo.

87. (New) The method of claim 82, wherein the transgenic fish is a transgenic zebrafish.

88. (New) The method of claim 86, wherein the transgenic fish embryo is a transgenic zebrafish embryo.